

PATENT COOPERATION TREATY

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INTERNATIONAL PRELIMINARY EXAMINATION REPORT
(PCT Article 36 and Rule 70)

Applicant's or agent's file reference SC0979EK	FOR FURTHER ACTION See Notification of Transmittal of International Preliminary Examination Report (Form PCT/PEA/416)	
International application No. PCT/EP 02/12821	International filing date (day/month/year) 11.11.2002	Priority date (day/month/year) 20.02.2002
International Patent Classification (IPC) or both national classification and IPC H04L12/40		
Applicant MOTOROLA INC et al.		



1. This international preliminary examination report has been prepared by this International Preliminary Examining Authority and is transmitted to the applicant according to Article 36.
2. This REPORT consists of a total of 6 sheets, including this cover sheet.

☒ This report is also accompanied by ANNEXES, i.e. sheets of the description, claims and/or drawings which have been amended and are the basis for this report and/or sheets containing rectifications made before this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions under the PCT).

 These annexes consist of a total of 2 sheets.

3. This report contains indications relating to the following items:

- I ☒ Basis of the opinion
- II ☐ Priority
- III ☒ Non-establishment of opinion with regard to novelty, inventive step and industrial applicability
- IV ☐ Lack of unity of invention
- V ☒ Reasoned statement under Rule 66.2(a)(ii) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement
- VI ☐ Certain documents cited
- VII ☐ Certain defects in the international application
- VIII ☐ Certain observations on the international application

Date of submission of the demand 04.08.2003	Date of completion of this report 26.04.2004
Name and mailing address of the International preliminary examining authority:  European Patent Office D-80298 Munich Tel. +49 89 2399 - 0 Tx: 523656 epmu d Fax: +49 89 2399 - 4465	Authorized Officer Jimenez Hernandez, P Telephone No. +49 89 2399-7938 

**INTERNATIONAL PRELIMINARY
EXAMINATION REPORT**

International application No. **PCT/EP 02/12821**

I. Basis of the report

1. With regard to the **elements** of the international application (*Replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report since they do not contain amendments (Rules 70.16 and 70.17)*):

Description, Pages

1-10 as originally filed

Claims, Numbers

1-12 received on 09.06.2003 with letter of 09.06.2003

Drawings, Sheets

1/3-3/3 as originally filed

2. With regard to the **language**, all the elements marked above were available or furnished to this Authority in the language in which the international application was filed, unless otherwise indicated under this item.

These elements were available or furnished to this Authority in the following language: , which is:

- ☐ the language of a translation furnished for the purposes of the international search (under Rule 23.1(b)).
☐ the language of publication of the international application (under Rule 48.3(b)).
☐ the language of a translation furnished for the purposes of international preliminary examination (under Rule 55.2 and/or 55.3).

3. With regard to any **nucleotide and/or amino acid sequence** disclosed in the international application, the international preliminary examination was carried out on the basis of the sequence listing:

- ☐ contained in the international application in written form.
☐ filed together with the international application in computer readable form.
☐ furnished subsequently to this Authority in written form.
☐ furnished subsequently to this Authority in computer readable form.
☐ The statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the international application as filed has been furnished.
☐ The statement that the information recorded in computer readable form is identical to the written sequence listing has been furnished.

4. The amendments have resulted in the cancellation of:

- ☐ the description, pages:
☒ the claims, Nos.: 13
☐ the drawings, sheets:

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5. ☐ This report has been established as if (some of) the amendments had not been made, since they have been considered to go beyond the disclosure as filed (Rule 70.2(c)).

(Any replacement sheet containing such amendments must be referred to under item 1 and annexed to this report.)

6. Additional observations, if necessary:

III. Non-establishment of opinion with regard to novelty, inventive step and industrial applicability

1. The questions whether the claimed invention appears to be novel, to involve an inventive step (to be non-obvious), or to be industrially applicable have not been examined in respect of:

☐ the entire international application,

☒ claims Nos. 11

because:

☐ the said international application, or the said claims Nos. relate to the following subject matter which does not require an international preliminary examination (specify):

☒ the description, claims or drawings (*indicate particular elements below*) or said claims Nos. 11 are so unclear that no meaningful opinion could be formed (*specify*):

see separate sheet

☐ the claims, or said claims Nos. are so inadequately supported by the description that no meaningful opinion could be formed.

☐ no international search report has been established for the said claims Nos.

2. A meaningful international preliminary examination cannot be carried out due to the failure of the nucleotide and/or amino acid sequence listing to comply with the standard provided for in Annex C of the Administrative Instructions:

☐ the written form has not been furnished or does not comply with the Standard.

☐ the computer readable form has not been furnished or does not comply with the Standard.

V. Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1. Statement

Novelty (N)	Yes: Claims	2-10
	No: Claims	1,12
Inventive step (IS)	Yes: Claims	
	No: Claims	1-10,12
Industrial applicability (IA)	Yes: Claims	1-10,12
	No: Claims	

2. Citations and explanations

**INTERNATIONAL PRELIMINARY
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see separate sheet

Re Item III

Non-establishment of opinion with regard to novelty, inventive step and industrial applicability

1. Claim 11, received after the international search report has been issued according to Art. 19 PCT, is not clear (Art. 6 PCT), see Rule 6.2(a) PCT and PCT International Preliminary Examination Guidelines, Chapter III, Point 4.10. Due to this severe lack of clarity, which should have been overcome, an opinion cannot be established regarding novelty, inventive step and industrial applicability for claim 11 (Art. 34(4)(a)(b) PCT).

Re Item V

Reasoned statement under Rule 66.2(a)(ii) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1. Independent claim 1 is not allowable due to lack of novelty, Art. 33 (1) and (2) PCT:
 - 1.1 **D1 = EP-A-0 930 759 (CANON KK) 21 July 1999 (1999-07-21)**, in the terminology of claim 1, discloses an information controller for a communication system having at least one communication bus (fig. 1) having an information unit with an identifier portion and a data portion corresponding to said identifier portion (abstract, fig. 4), said information controller comprising an identifier look-up element for sending a predetermined program selector to a signal handler upon determination that the identifier portion of a received information unit corresponds to a predetermined identifier associated with the predetermined program selector, wherein the program selector defines an operation to be performed on the data portion by the signal handler (col. 9, lines 29-50, fig. 3).

D1 therefore discloses all the features of claim 1.
2. Furthermore, the subject-matter of independent claim 1 is also fully disclosed in **D2 = EP-A-1 085 720 (KONINKL PHILIPS ELECTRONICS NV) 21 March 2001 (2001-03-21)**, see citations in the International Search Report (Art. 33 (1) and (2) PCT).

3. If novelty should be disputable based on some minor difference of interpretation, it is pointed out that the subject-matter of claim 1 would in any case not involve an inventive step over the disclosure of **D1** or **D2** (Art. 33(3) PCT), given that **D1** and **D2** attempt to solve the same problem and describe the same type of solution as presently claimed in claim 1.
4. The lack of novelty objection starting from **D1** or **D2** also applies to the subject-matter of independent claim 12 (Art. 33 (1) and (2) PCT):

Claims 12 claims a method corresponding to claim 1, since the apparatus features in claim 1 are characterized by being arranged to carry out the method steps defined in claim 12. Since no new technical features are added, the citations in Point 1 also apply to claim 12.

5. The additional features of the dependent claims 2-10 do not seem to add anything novel and inventive to the independent claims because these features are either known from the prior art or common measures or variations (Art. 33 (1) and (3) PCT).

CLAIMS:

1. An information controller for a communication system having at least one communication bus and having an information unit with a first identifier portion and a data portion corresponding to said first identifier portion, said information controller comprising:

an identifier look-up element for receiving the first identifier portion, comparing the first identifier with a predetermined identifier, to provide a program selector upon matching the first identifier with the predetermined identifier;

a signal handler for receiving the data portion and the program selector, and compiling in accordance to a sequence command initiated by the program selector, a second information unit with a second identifier and selected information as defined by the sequence command.

2. An information controller as claimed in claim 1 wherein the first identifier portion defines the data portion of the first information unit and the selected information of the second information unit, and further defines a sequence command to process the first information unit.

3. An information controller as claimed in claim 1 or 2 wherein the identifier look-up element further comprises a look-up table for storing said predetermined value.

4. An information controller as claimed in claim 1, 2 or 3 wherein the signal handler further comprises a data storage memory for storing said data portions.

REPLACED BY
ART 34 AMDT

5. An information controller as claimed in any preceding claim further comprising a frame transmitter for prioritising multiple second information units in accordance with a communications protocol.
6. An information controller as claimed in claim 5 further comprising a transmission memory for storing multiple second information units.
7. An information controller as claimed in any preceding claim wherein the identifier look-up element is programmable for dynamically changing the predetermined value and the sequence commands.
8. An information controller as claimed in any preceding claim further comprising a central processing unit interface to allow direct communication between said information controller with a central processing unit of the communication system.
9. An information controller as claimed in claim 8 wherein said central processing unit may access any memory of the information controller.
10. An information controller as claimed in claim 9 wherein the information controller receives the first information unit and processes the second information unit separately from the central processing unit.
11. A method for using a an information controller for a communication system having at least one communication bus and having an information unit with a first

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identifier portion and a data portion corresponding to said first identifier portion, said method comprising the steps of:

receiving the first identifier portion at an identifier look-up element;

comparing the first identifier with a predetermined identifier, to provide a program selector upon matching the first identifier with a predetermined identifier;

receiving at a signal handler the data portion and the program selector; and

compiling in accordance to a sequence command initiated by the program selector, a second information unit with a second identifier and selected information as defined by the sequence command.

12. A method for using a information controller as claimed in claim 11, further comprising the step of prioritising multiple second information units in accordance with a communications protocol in a frame transmitter.

13. A method for using a information controller as claimed in claim 11 or 12, further comprising the step of programming for dynamically changing the predetermined value and the sequence commands in the identifier look-up element.

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AMENDED CLAIMS

[received by the International Bureau on 16 June 2003 (16.06.03);
original claims 1-13 replaced by claims 1-12 (2 pages)]

1. An information controller for a communication system having at least one communication bus having an information unit with a identifier portion and a data portion corresponding to said identifier portion, said information controller comprising an identifier look-up element for sending a predetermined program selector to a signal handler upon determination that the identifier portion of a received information unit corresponds to a predetermined identifier associated with the predetermined program selector, wherein the program selector defines an operation to be performed on the data portion by the signal handler.
2. An information controller as claimed in claim 1, wherein the operation to be performed on the data portion can be the creation of a second information unit; or merging the data portion, or part of the data portion, with another data portion of a second information unit; or saving the data portion, or part of the data portion.
3. An information controller as claimed in claim 2, further comprising a frame transmitter for prioritizing multiple second information units for transmission in accordance with a communication protocol.
4. An information controller as claimed in claim 3, wherein the second information units include a second identifier.
5. An information controller as claimed in claim 3 or 4, further comprising a transmission memory for storing multiple second information units.
6. An information controller as claimed in any preceding claim, wherein the identifier look-up element further comprises a look-up table for storing said predetermined identifier and program selectors.
7. An information controller as claimed in any preceding claim, wherein the signal handler further comprises memory for storing said data portion and a predetermined sequence of operations.
8. An information controller as claimed in any preceding claim, wherein the identifier look-up element is programmable to allow the predetermined identifier and/or the associated program selector to be changed.
9. An information controller as claimed in any preceding claim, further comprising a central processor unit interface to allow direct communication between said information controller with a central processing unit of the communication system.
10. An information controller as claimed in claim 8, wherein said central processing unit can access any memory of the information controller.

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11. An information controller substantially as hereinbefore described with reference to the drawings.
12. A method for using an information controller for a communication system having at least one communication bus and having an information unit with an identifier portion and a data portion corresponding to said identifier portion, said method comprising the steps of:
 - receiving the identifier portion at an identifier loop-up element;
 - sending a predetermined program selector to a signal handler upon determination that the identifier portion corresponds to a predetermined identifier associated with the predetermined program selector;
 - performing an operation on the data portion based upon the program selector.

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